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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/634,080	08/04/2003	Thomas M. Tirpak	33692.02.2745	5254
23418	7590	05/19/2008	EXAMINER	
VEDDER PRICE P.C. 222 N. LASALLE STREET CHICAGO, IL 60601			MORRISON, JAY A	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/634,080	TIRPAK ET AL.	
	Examiner	Art Unit	
	Jay A. Morrison	2168	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 October 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,3-12,14-22,25 and 27 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,3-12,14-22,25,27 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date: _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date: _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Remarks

1. Claims 1,3-12,14-22,25,27 are pending.

Specification

2. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: "computer readable medium" is not disclosed in the specification.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1,3-12,14-22,25,27 are rejected under 35 U.S.C. 102(e) as being anticipated by Keith (Patent Number 6,629,097).

As per claim 1, Keith teaches

A data management system comprising: (see abstract and background)
a processing device (computer-implemented system, column 56, lines 32-36);
memory containing executable instructions that cause the processing device to perform as a knowledge container creator module operative to create at least a first data descriptor item and at least a second data descriptor item based upon a raw data item (entities and concepts, column 25, line 53 through column 26, line 19) capable of containing data representing raw data that is in one of a plurality of different formats (myriad of data sources, column 18, lines 8-20), and to link the raw data item to at the least a first data descriptor item, and to link the raw data item to the at least a second data descriptor item (entities and concepts, column 25, line 53 through column 26, line 19);

and wherein the first data descriptor item is in the form of a context descriptor (entity descriptions, column 44, lines 7-33),

and wherein the second data descriptor item is in the form of at least one of the following: decision-support data descriptor, keyword descriptor and data access instructions descriptor (associative terms, column 25, lines 53-60).

As per claim 3, Keith teaches

A data management system comprising: (see abstract and background)
a processing device (computer-implemented system, column 56, lines 32-36);
and memory containing executable instructions that cause the processing device to perform as a knowledge container administrator module operative to modify a

template descriptor item and operative to create knowledge transformation information by extrapolating data from a raw data item capable of containing data representing raw data (column 25, line 53 through column 26, line 19; column 28, lines 45-55) that is in one of a plurality of different formats (myriad of data sources, column 18, lines 8-20).

As per claim 4, Keith teaches

the knowledge container administrator module is further operative to link the raw data item to the knowledge transformation information (column 25, line 53 through column 26, line 19).

As per claim 5, Keith teaches

A data management system comprising: (see abstract and background)
a processing device (computer-implemented system, column 56, lines 32-36);
and memory containing executable instructions that cause the processing device to perform as a knowledge container creator module operative to link (identify and store, column 25, lines 53-60) a raw data item that is in one of a plurality of different formats (myriad of data sources, column 18, lines 8-20), to at least a first data descriptor item, in XML format, wherein the first data descriptor item is in the form of a context descriptor containing descriptive information about the raw data item (entity description, column 25, lines 48-52), and wherein the knowledge container creator module is operative to link the raw data item to at least a second data descriptor item, in XML format, wherein the second data descriptor item is in the form of at least one of: a decision-support data

descriptor, containing decision-support information generated from the raw data item, a keyword descriptor, identifying keywords contained in the raw data item, and a data access instructions descriptor, providing instructions on how to access the raw data in the raw data item (associative terms, column 25, line 53 through column 26, line 19);

a knowledge container searcher module operative to retrieve the raw data item by searching at least one of: the first and second data descriptor items (column 44, lines 34-60);

a base knowledge container update module that is operative to format the raw data item into a specific XML knowledge container format (column 25, lines 40-47).

As per claim 6, Keith teaches

the knowledge container creator module is operative to generate the first data descriptor item based upon the raw data item (entities, column 25, lines 53-60).

As per claim 7, Keith teaches

a base knowledge container update module that is operative to generate the second data descriptor item based upon the raw data item (concepts, column 25, lines 53-60).

As per claim 8, Keith teaches

a base knowledge container update module that is operative to format the first and second data descriptor items in XML knowledge container format (column 25, lines 40-47).

As per claim 9, Keith teaches

a knowledge container administrator module operative to modify a template descriptor item, for creating the first data descriptor item and for searching the first and second data descriptor items, wherein the template descriptor item includes at least one of: template knowledge containers, for providing the inputs for entering the context descriptor, search template knowledge containers, for providing the inputs for searching the data descriptor items, and dictionary knowledge containers, for identifying keywords (column 30, lines 58-65).

As per claim 10, Keith teaches

modifying template descriptor item includes at least one of: adding fields, removing fields, adding keywords and removing keywords (column 44, lines 34-45).

As per claim 11, Keith teaches

a knowledge container administrator module operative to create knowledge transformation information by extrapolating data from the raw data item and operative to link the raw data item to the knowledge transformation information (column 20, lines 27-68).

As per claim 12, Keith teaches

the knowledge container administrator module is operative to create a knowledge model using knowledge discovery techniques on the raw data item in the form of at least one of: decision trees, rule sets, neural networks and expression trees (analyze relational structure, column 45, lines 12-21).

As per claim 14, Keith teaches

the base knowledge container update module generates a keyword descriptor by processing the raw data item (associative terms, column 25, lines 53-60).

As per claim 15, Keith teaches

a knowledge container database operative to store the raw data item, the first data descriptor item, and the second data descriptor item (column 17, lines 20-50; column 18, lines 8-20).

As per claim 16, Keith teaches

the base knowledge container comprises: a knowledge source depository containing the raw data item (column 18, lines 8-20);

and a metaknowledge depository containing the at least two data descriptor items associated with the raw data item (column 44, lines 40-50).

As per claim 17, Keith teaches

the base knowledge container further comprises a knowledge representation depository containing the knowledge transformation information generated from the raw data item (matrices, column 25, line 53 through column 26, line 20).

As per claim 18, Keith teaches

the knowledge transformation information is in the form of at least one of: knowledge model and summary report (matrices, column 25, line 53 through column 26, line 20).

As per claim 19, Keith teaches

the knowledge model is in the form of at least one of: decision trees, rule sets, neural networks and expression trees (analyze relational structure, column 45, lines 12-21).

As per claim 20, Keith teaches

the first and second data descriptor items are in the form of at least one of the following: decision-support data descriptor, keyword descriptor, context descriptor and data access instructions descriptor (entities and concepts, column 25, line 53 through column 26, line 19).

As per claim 21, Keith teaches

the raw data item, the first descriptor item and the second descriptor item are stored in a XLM data blocks (column 25, lines 40-47).

As per claim 22, Keith teaches

the XML data blocks are defined by a data block definition with a form including at least one of: a table and a matrix (column 25, lines 40-47).

As per claim 25, Keith teaches

A computer readable medium containing programming instructions for processing data, the computer readable medium including programming instructions for: (see abstract and background)

linking a raw data item, capable of containing data representing raw data stored that is in one of a plurality of different formats" (myriad of data sources, column 18, lines 8-20), to at least a first data descriptor item wherein the first data descriptor item is in the form of a context descriptor, containing descriptive information about the raw data item, linking the raw data item to at least a second data descriptor item, wherein the second data descriptor item is in the form of at least one of: an decision-support data descriptor, containing a decision-support information generated from the raw data, a keyword descriptor, identifying keywords contained in the raw data item, and a data access instructions descriptor, providing instructions on how to access the raw data in the raw data item (entities and concepts, column 25, line 53 through column 26, line 19);

locating the raw data item by searching at least one of: the first and second data descriptor items (column 44 lines 34-60);

generating knowledge transformation information by extrapolating data from the raw data item (matrices, column 25, line 53 through column 26, line 20);

and creating the first and second data descriptor items based upon the raw data item (entities and concepts, column 25, line 53 through column 26, line 19).

As per claim 27, Keith teaches

A data management system comprising: (see abstract and background)

a processing device (computer-implemented system, column 56, lines 32-36);

and memory containing executable instructions that cause the processing device to perform as a knowledge container creator module operative to create at least a first data descriptor item and at least a second data descriptor item based upon the raw data item (entities and concepts, column 25, line 53 through column 26, line 19), capable of containing data representing raw data that is in one of a plurality of different formats (myriad of data sources, column 18, lines 8-20), and to link a raw data item to at the least a first data descriptor item, and the knowledge container creator module operative to link the raw data item to the at least a second data descriptor item" (column 25, line 53 through column 26, line 20), wherein the second data descriptor item is in the form of at least one of: a decision-support data descriptor, containing a decision-support information generated from the raw data; a keyword descriptor, identifying keywords

contained in the raw data item, and a data access instructions descriptor, providing instructions on how to access the raw data in the raw data item (column 44, lines 7-33);

and a knowledge container searcher module operative to retrieve the raw data item by searching at least one of: the first and second data descriptor items (column 44 lines 34-60);

a knowledge container administrator module operative to modify template descriptor item for creating the first data descriptor item and for searching the first and second data descriptor items, wherein the template descriptor item includes at least one of: template knowledge containers, for providing the inputs for entering the context descriptor, search template knowledge containers, for providing the inputs for searching the data descriptor items, and dictionary knowledge containers, for identifying keywords (column 55, line 34 through column 45 line 11), and the knowledge container administrator module operative to create knowledge transformation information by extrapolating data from the raw data item and operative to link the raw data item to the knowledge transformation information (matrices, column 25, line 53 through column 26, line 20);

and a base knowledge container update module operative to format the raw data item into an XML knowledge container format (column 25, lines 40-47), and to generate a keyword descriptor by processing the raw data item" (column 25, lines 53-60);

a knowledge container database operative to store the raw data item, the first descriptor item and the second descriptor item and the knowledge container database

further having: a knowledge source depository containing the raw data item (column 17, lines 20-50; column 18, lines 8-20);

a metaknowledge depository containing the data descriptor item associated with the raw data item" (column 44, lines 40-55);

and a knowledge representation depository containing the knowledge transformation information generated from the raw data item (matrices, column 25, line 53 through column 26, line 20).

Response to Arguments

5. Applicant's arguments filed 10/22/2007 have been fully considered but they are not persuasive.

6. With respect to Applicant's argument that Keith does not disclose "create knowledge transformation information by extrapolating data from a raw item capable of containing data representing raw data", it is respectfully submitted that Keith discloses the limitation throughout his patent, for example as a statistical procedure which generates chi-square or Euclidean distances (column 28, lines 47-50), statistical techniques (column 28, lines 56-60 and column 29, lines 16-20), and further states that "the general statistical method for dual plotting used in example throughout this document" (column 28, lines 51-53). Therefore Keith discloses the limitation argued.

With regards to Applicant's argument that Keith does not disclose "raw data that is in one of a plurality of different formats", it is noted that Keith discloses that the input data can come from a myriad of other data sources such as structured and unstructured

database, or any text source such as news publications, works of literature, and periodicals (column 18, lines 10-20). Applicant further argues that the Specification of the instant application defines examples of a raw data item format as formatted or unformatted data or data links. Respectfully, even applying these limitations from the Specification to the claimed invention, which is not required for examination, the claim is still clearly taught by the above citation since structured and unstructured data is obviously not in the same format. Therefore Keith discloses the limitation.

With regards to Applicant's argument that Keith does not disclose that XML is used as input to the system, it is noted that Keith discloses that the input data can be marked up to reveal structure such as an XML document (column 25, lines 40-45). Respectfully, processing the input data into XML format in the cited reference performs the same function as the claimed processing device which generates XML format descriptors from the raw data item. Therefore Keith discloses the limitation.

Conclusion

7. The prior art made of record, listed on form PTO-892, and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jay A. Morrison whose telephone number is (571) 272-7112. The examiner can normally be reached on M-F 8-4:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tim Vo can be reached on (571) 272-3642. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



TIM VO
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

Jay Morrison
TC2100

Tim Vo
TC2100